MultiConnect™ WF

Serial-to-Wi-Fi® Device Server

Benefits

- Serial-to-802.11b wireless networking
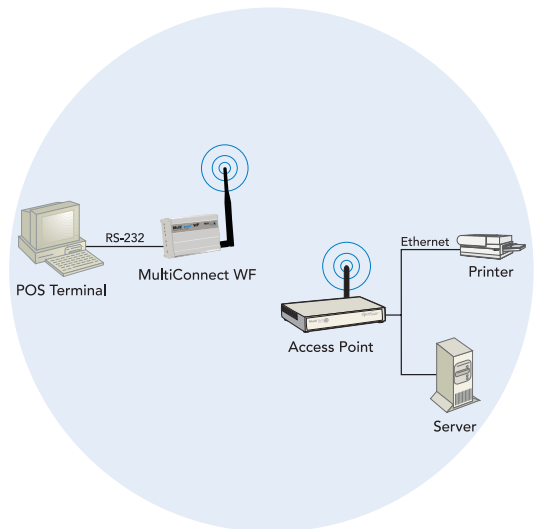- Flexible IP protocol stack
- Compact, rugged industrial chassis

The MultiConnect™ WF device server connects serial devices to an IP network via 802.11b wireless networking. It enables you to build wireless networking into virtually any device allowing for remote monitoring, control and configuration. The device server integrates a complete TCP/IP protocol stack. It can make your existing and next generation device, machine or system, IP-ready while you focus on developing its core features.

Features

- Complete serial-to-Wi-Fi® wireless connectivity solution including network processor, media access controller and air interface
- Supports ad-hoc and infrastructure mode
- Wi-Fi security using WEP
- Serial interface supports DTE speeds to 230K bps
- High performance processor runs ARP, DHCP client, DNS, FTP client, ICMP (ping), IP, POP3, SMTP, TCP and UDP protocols
- Configuration and management via AT commands
- Flash memory to update firmware with the latest enhancements
- Desktop or panel mounting
- Two-year warranty

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Highlights

Applications. The MultiConnect WF device server will wirelessly IP-enable any device to provide remote monitoring, control and configuration of any system. It is ideal for:

- Industrial and medical remote monitoring systems
- Data collection
- Remote diagnostics
- Ticketing machines
- Remote metering
- Security systems
- Point-of-sale terminals
- Gas pumps
- ATM terminals
- Television set-top boxes
- Credit card and check verification systems
- Vending/gaming machines
- Appliances

Serial-to-Wi-Fi Technology. The MultiConnect WF device server provides the powerful ability to IP-enable serial devices allowing more options for data acquisition, device management, and industrial control than would otherwise be available. The device server integrates a processor, proprietary operating system, TCP/IP stack and an 802.11b wireless network connection to provide a complete serial-to-Wi-Fi connectivity solution.

Reduces Development Time. The MultiConnect WF device server can make your existing and next generation serial device IP-ready without requiring hardware changes to its design. It actually provides faster time-to-market because it relieves the burden and expense of writing and maintaining Internet applications. The complete, ready-to-integrate device server allows you to enhance your product while you focus on developing its core features.

Industrial Chassis. The MultiConnect WF device server is packaged in a rugged, industrial chassis with an RS-232 interface connector and 10/100BaseT Ethernet connector. It can be desktop or panel mounted. Numerous LEDs provide visual monitoring of link, activity, operational status and power. It is available with external or RS-232 power options.

Firmware Upgrades. The MultiConnect WF device server features flash memory, which allows for easy firmware updates. These upgrades allow the user to stay current with the latest enhancements that Multi-Tech has to offer.

Comprehensive Service and Support. The Multi-Tech commitment to service means we provide a two-year product warranty and service that includes free telephone technical support, 24-hour web site and ftp support.

Specifications

Wireless Specifications
Network Interface: IEEE 802.11b
Frequency Range: 2.400 to 2.484 GHz
Data Rate: 1, 2, 5.5, 11 Mbps
Maximum Transmit Power: 16 dBm
Receiver Sensitivity: -82 dBm
Security: 64/128 bit WEP
Mode: Ad Hoc, Infrastructure
Antenna: Reverse SMA

Voltage Requirements
5VDC to 24VDC

Power Requirements
190mA @ 5VDC
110mA @ 9VDC
85mA @ 12VDC
46mA @ 24VDC

Network Protocol Support
ARP, DHCP client, DNS, FTP client, ICMP (ping), IP, POP3, SMTP, TCP and UDP protocols

Physical Description
3.5" w x 2.1" h x 0.98" d; 3.4 oz.
(8.8 cm x 5.3 cm x 2.4 cm; 96 g)

Operating Environment
Temperature range: -40° to +185° F (-40° to +85° C) tested
UL listed @ +104° F (+40° C)
Humidity range: 25-85% noncondensing

Certifications
CE Mark
EMC: FCC Part 15 Class B, EN 55022, EN 55024
Safety: cUL 60950-1, EN 60950-1, UL 60950-1

Ordering Information

Product	Description	Region
MTS2WFA*	802.11b Device Server (External Power, US Cord)	Regional
MTS2WFA-R	802.11b Device Server (RS-232 Power)	Regional

* Specify country when ordering.

Made in Mounds View, MN, U.S.A.

Features and specifications are subject to change without notice.

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